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(54) Title: METHODS FOR INHIBITING ADIPOGENESIS AND FOR TREATING TYPE 2 DIABETES

(57) Abstract: The present invention relates to methods for inhibiting adipogenesis and methods for treating obesity, metabolic syndrome and non-insulin dependent diabetes mellitus by administering an agent that increases Foxa-2 or Fxr, or an agent that activates Fxr. The invention is further related to methods for identifying agents that increase Foxa-2 or Fxr, or activate Fxr, and the use of such agents for treatment of obesity, metabolic syndrome and non-insulin dependent diabetes mellitus. Methods of identifying agents that mediate the phosphorylation of the transcription factor Foxa-2 are provided. Such agents are useful in methods of treating Type 2 diabetes.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/09954

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68; A01N 43/04; A61K 31/70

US CL : 435/6; 514/44

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6; 514/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WEIDENFELD et al. The WNT7b Promoter Is Regulated by TF-1, GATA6, and Foxa-2 in Lung Epithelium JBC June 2002 Vol. 277 no.23 pp21061-21070.	1-50
A, P	WOLFRUM et al. Insulin Regulates the activity of forkhead transcription factor Hnf-3beta/Foxa-2 by Akt-mediated phosphorylation and nuclear/cytosolic localization. PNAS Vol.100 no.20 September 2003 11624-11629.	1-50

☐ Further documents are listed in the continuation of Box C.



See patent family annex.

### \* Special categories of cited documents:

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Continuation of B. FIELDS SEARCHED Item 3:  
EAST (USPAT, PGPUB, JPO, EPO, DERWENT), STN  
Foxa-2, Hnf-3, Hnf-3alpha, screen, identify, expression